

STIC Database Injection Number

TO: Amy H Bowman

Location: REM-2031&2C18

Art Unit: 1635

Wednesday, May 04, 2005

Case Serial Number: 10/605498

From: Paul Schulwitz

Location: Biotech-Chem Library

REM-1A65

Phone: 571-272-2527

paul.schulwitz@uspto.gov

| Search Notes | |
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151975

From:

Bowman, Amy

Sent:

Thursday, April 28, 2005 12:54 PM

To:

STIC-Biotech/ChemLib

Cc: Subject: Bowman, Amy 10/605,498

Hello,

I need a search of SEQ ID NO: 82 in application 10/605,498, length limited to 20 nucleobases. (I do not need any complements, just matches).

Thanks, Amy Bowman AU 1635 REM 2C18

STAFF USE ONLY

Searcher: ______ Searcher Phone: 2-Date Searcher Picked up: _____ Date Completed: _____

Searcher Prep/Rev. Time:____ Online Time:_____ Type of Search

NA#:____ AA#:___
Interference:__ SPDI:__
S/L:__ Oligomer:__
Encode/Transl:__ Text:__
Structure#:___ Text:_
Inventor:___ Litigation:___

Vendors and cost where applicable

STN:________
DIALOG:_______
QUESTEL/ORBIT:______
LEXIS/NEXIS:______
SEQUENCE SYSTEM:______
WWW/Internet:______

Other(Specify):_

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Sequence Sequence Sequence

Sequence Sequence Sequence

Sequence Sequence Sequence Sequence Sequence Sequence

Sequence

SEQUENCES

Sequence Sequence

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65.0%; Score 13; DB 3; L. 100.0%; Pred. No. 7.1e+03; iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READBLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FRASESQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/046,858A
FILING DATE: 24-MAR.1998
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/042,376
FILING DATE: 24-MAR.1997
ATTORNEY/AGENT INFORMATION:
NAME: Dehlinger, Peter J.
REGISTRATION NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 28,006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0860
             US-08-481-066A-66
US-09-313-376-6
US-08-829-6378-66
US-10-025-139-66
PCT-US95-0616-15
US-09-679-427-31
US-09-472-618B-77
US-09-402-618B-77
US-09-402-618B-77
US-09-402-618B-77
US-08-050-73-173
US-08-912-951-244
US-08-912-951-244
US-08-912-951-244
US-09-402-181B-477
US-09-402-181B-477
US-09-373-124A-2
                                                                                                                                                                                                                                                                                                                          ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 19, Application US/09046858A
Patent No. 6048973
GENERAL INFORMATION:
TITLE OF INVENTION: SUGAR-REGULATORY SEC
TITLE OF INVENTION: IN ALPHA-AMYLASE GEN
TITLE OF INVENTION: 11 ALPHA-AMYLASE GEN
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Deblinger & Associates
STREET: PO BOX 60850
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX:
TREES:
INFORMATION FOR SEQ ID NO: 19
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 GACGCGCCCTCG 15
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Best Local Similarity 100.
Matches 13; Conservative
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USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: US
ZIP: 94306
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US-09-046-858A-19
                                                                                                                                                                                                                                                                                                                                                                                           US-09-046-858A-19
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Sequence 16, Appli
Sequence 16, Appli
Sequence 9, Appli
Sequence 13, Appli
Sequence 13, Appli
Sequence 18, Appli
Sequence 122, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19, Appl
Sequence 19, Appl
Sequence 9, Appli
                                                                                                         May 3, 2005, 17:57:30; Search time 124 Seconds (without alignments) 263.916 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18, P
Sequence 122,
Sequence 391,
Sequence 28, P
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Sequence 66,
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Sequence 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Issued Patents NA:*

(cgn2_6/ptodata/1/ina/5A_COMB.seq:*
(cgn2_6/ptodata/1/ina/5B_COMB.seq:*
(cgn2_6/ptodata/1/ina/6B_COMB.seq:*
(cgn2_6/ptodata/1/ina/6B_COMB.seq:*
(cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
(cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-046-858A-19
US-08-470-515-19
US-08-474-633A-16
US-08-474-633A-16
US-08-171-16
PCT-US92-06412-9
US-08-171-2049E-6
US-09-467-642-13
US-09-462-618B-75
US-08-656-716-18
US-08-656-716-18
US-08-656-716-18
US-08-656-716-18
US-08-123-951-42
US-09-123-951-42
US-09-123-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
US-09-103-951-42
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                                                                                                                                                                                                                                                                                          1202784 seqs, 818138359 residues
                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                            nucleic search, using sw model
                                                                                                                                                                                                             1 gggacgcggcgctcggtcat 20
                                                                                                                                                                                                                                         IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                           US-10-605-498-82
20
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Match Length
                                                                                                                                                                                                                                                                                                                                                         Minimum DB seq length; 0 Maximum DB seq length: 20
                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                             Title:
Perfect score:
                                                                              OM nucleic
                                                                                                                                                                                                            Sequence:
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                                                                                                            Run on:
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Length 20

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NAME/KEY: misc_feature
LOCATION: 1..26
OTHER INFORMATION: /product= "synthetic oligonucleotide"
OTHER INFORMATION: /standard_name= "SM 70"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CHIMERIC GENES AND
METHODS FOR INCREASING
INCREASING THE LYSINE
AND THREONINE CONTENT
OF THE SEEDS OF PLANTS
                                   MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/182,175A
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: E. I. DU PONT DE NEMOURS AND APPLICANT: COMPANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PONT DE NEMOURS
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                                                                                                                                                                                  CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 AUGUST 1991
ATTORNEY AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: BB-1031
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;-08-474-633A-16
Sequence 16, Application US/08474633A
Patent No. 5773691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 1007 MARKET STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: DNA (genomic) FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: CHIMER TITLE OF INVENTION: METHOD TITLE OF INVENTION: MORRA TITLE OF INVENTION: OF THE NUMBER OF SEQUENCES: 107 CORRESPONDENCE ADDRESSE: R. I. DU PONT ADDRESSEE: R. I. DU PONT ADDRESSEE: AND COMPANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 CGCGGCGCTCGGTC 18
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APPLICATION NUMBER: US,
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 835420
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nucleic acid
EDNESS: single
                      COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
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Matches 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: U
ZIP: 19898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-182-175A-9
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Patent No. 555923
GENERAL INFORMATION:
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
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                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: IBM COMPATION STERM: DOS
SOFTWARE: Fast5EO for Windows Version 2.0
CURRENT APPLICATION NUMBER: US/09/450,515
FILING DATE: 29-No. 6680425-1999
CLASSIFICATION UNMER: 09/046,858
APPLICATION NUMBER: 09/046,858
                                                                                                                                                                APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
IN ALPHA-AMYLASE GENES
NUMBER OF SEQUENCES: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3: E.I. du Pont de Nemours and Company
1007 Market Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 13; DB 4; Lo
Pred. No. 7.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Dehlinger, Peter J.
REGISTRATION NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 2000-0456.30
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSE: Dehlinger & Associates
STREET: PO Box 60850
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO: 19: US-09-450-515-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      65.0%; Scor.
100.0%; Pre
                                                                                                   Sequence 19, Application US/09450515 Patent No. 6680425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 650-324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 20 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 19:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                           ZIP: 94306
COMPUTER READABLE FORM:
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2 GACGCGCGCTCG 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 1007 Mar
CITY: Wilmington
STATE: Delaware
                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 13; Conserv
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                                                             RESULT 2
US-09-450-515-19
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Gaps

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Sequence 9, Application PC/TUS9206412
Sequence 9, Application PC/TUS9206412
Sequence 9, Application:
APPLICANT: Saverio Carl Falco
APPLICANT: Saverio Carl Falco
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing PN NUMBER OF SEQUENCES: 113
COMRESSERE F. I. du Pont de Nemours and Company
STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                               Score 12.4; DB 3; Length 20;
Pred. No. 1.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                           NAME/KEY: misc_feature
LOCATION: 1..20
OTHER INFORMATION: /product= "synthetic oligonucleotide"
/standard_name= "SM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Readable FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06412
FILING DATE: 19920807
CLASSIFICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 August 1991
ATTORNEY AGENT INFORMATION:
AMAR: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1031
TELECOMMUNICATION INFORMATION:
TELEPHONE: (102) 992-4929
                                                                                                                                                                                                                                                                                                                                           ; SEQUENCE DESCRIPTION; SEQ ID NO: 16:
US-08-823-771-16
                                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEX: 835420
INPORMATION FOR SEQ ID NO: 9: SEQUENCE CHARACTERISTICS: LENGTH: 20 base pairs TYPE: NUCLEIC ACID STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                         INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match.

Best Local Similarity 92.9%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : (302) 992-4929
(302) 892-7949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7 cécrécériceare 20
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Pred. No. 1.3e+04;
0; Mismatches 1; Indels
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MEDIUM TYPE: FLORPY DISK
MEDIUM TYPE: FLORPY DISK
COMPUTER: IBW PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
CURRENT APPLICATION DATA:
FILING DATE: 24-Mar-1997
CLASSIFICATION: vUnknown>
PRIOR APPLICATION NUMBER: 08/474,633
FILING DATE: -Unknown>
APPLICATION NUMBER: 08/474,633
FILING DATE: -Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: 30,684
TELECOMMUNICATION NUMBER: 30,684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: E. I. DU PONT DE NEMOURS AND
COMPANY
TITLE OF INVENTION: CHIMERIC GENES AND
METHODS FOR INCREASING
INCREASING THE LYSINE
AND THREONINE CONTENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. DU PONT DE NEMOURS
AND COMPANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                            oligonucleotide"
/standard_name= "SM
                                                                                                BB-1037-C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 16, Application US/08823771 Patent No. 6459019 GENERAL INFORMATION:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: BB-10
TELECOMUNICATION INFORMATION:
TELEPHONE: 302-92-4931
TELEFAX: 302-773-0164
TELEFAX: 885420
INFORMATION FOR SED ID NO: 16: SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
STRANDEDNESS: single
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 302-773-0164
                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            62.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 107
                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc_feature

COCATION: 1..20

COTHER INFORMATION: Oligon

OTHER INFORMATION: Oligon

OTHER INFORMATION: /stanc

COTHER INFORMATION: /stanc

SOTHER INFORMATION: /stanc
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STATE: DELAWARE
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 62.0
Best Local Similarity 92.9
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-823-771-16
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Sequence 75, Application US/09402618B Patent No. 6709815
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 128
SOFTWARE: Patentin version 3.0
SEQ ID NO 75
LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   vuciy match
Best Local Similarity 77.8%;
Matches 14; Conservative (
                                                                           TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                       59.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Synthetic US-09-402-618B-75
                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Dong, Fang
APPLICANT: Lyamichev, Victor
                                                                                                                                                                                                                                                                   5 CGCGGCGCTCGGTCA 19
                                                                                                                                                                                                                                                                                                         18 CGCGGCGATCGGACA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Prudent, James
Fors, Lance
Neri, Bruce
                                                                                                                                                                                         Query Match
Best Local Similarity 86.7
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Brow, Mary Ann
                   NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA
ZIP: 02110-2804
 CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDART: STREET: STREET: STREET: STREET: Boston
                                                                                                                                                                                                                                                                                                                                                                                   -09-402-618B-75/c
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                                       SEQ ID NO 13
LENGTH: 20
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APPLICANT: Lex M. Cowsert
TITLE OF INVENTION: ANTISENSE MODULATION OF TELOMERIC REPEAT BINDING FACTOR 2 EXPRES
FILE REFERENCE: RTS-0106
CURRENT APPLICATION NUMBER: US/09/467,642
                                                                                                                                                                                                                                                                                                                                                                                     EXOENZYME S
                                                                                                                   ö
                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                         Patent No. 5599665
GENERAL INFORMATION:
APPLICANT: Barbieri, Joseph T.
APPLICANT: Frank, Dara W.
TITLE OF INVENTION: EXOENZYME S PROTEIN PREPARATION AND CLONED NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
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Pred. No. 2.5e+04;
4; Mismatches 1; Indels
 /product= "synthetic oligonucleotide"
/standard_name= "SM 70"
                                                                               Length 20;
                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,299B
                                                                             Score 12.4; DB 5;
Pred. No. 1.3e+04;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                               E: QUARLES & BRADY
411 East Wisconsin Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 53202-4497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: Other Nucleic Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 13, Application US/09467642
Patent No. 6300132
GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Lex M. Cowsert
                                                                                                                                                                                                                                                                       US-08-171-299B-6/c
; Sequence 6, Application US/08171299B
; Patent No. 5599665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
ATTORNEY/AGENT INPORMATION:
NAME: Baker, Jean C.
REGISTRATION NUMBER: 35,433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 6
TELECOMMUNICATION INFORMATION
                                                                               62.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPAONE: (414) 277-5709
TELEFAX: (414) 271-3552
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 59.0%;
Best Local Similarity 66.7%;
Matches 10; Conservative
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15 RGARGCSGCSCTSGG 1
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                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: single
; OTHER INFORMATION:
; OTHER INFORMATION:
PCT-US92-06412-9
                                                           Query Match
Best Local Similarity
The 13; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE: Wisconsin COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Milwaukee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-467-642-13/C
                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
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APPLICANT: Anderson, Todd
APPLICANT: Dahlberg, James
APPLICANT: Dahlberg, James
FITLE OF INVENTION: Target-Dependent Reactions Using Structure-Bridging Oligonucleotic
FILE REPERBNCE: FORS-04012
CURRENT APPLICATION NUMBER: US/09/402,618B
PRIOR APPLICATION NUMBER: PCT/US98/03194
PRIOR FILING DATE: 1999-05-05
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                                                                                                                               Gaps
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                                                                                                                                  2; Indels
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Parent No. 5786146
GENERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
                                                                                   Score 11.8; DB 3;
Pred. No. 2.5e+04;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 11.6; DE
Pred. No. 3e+04
0; Mismatches
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-467-642-13
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APPLICANT: Herman, James G. APPLICANT: Baylin, Stephen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 18: SEQUENCE CHARACTERISTICS: LENGTH: 17 base pairs TYPE: mucleic acid STRANDEDNESS: single
                                                                              57.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               57.0%;
92.3%;
                                                                                                                                                      s cecececrecer 17
                                                                            Query Match
Best Local Similarity 92.3
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                    ; MOLECULE TYPE: DNA
US-08-656-716-42
    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: La Jolla
STATE: CA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            92037
                                                                                                                                                                                                                                                     RESULT 12
US-08-835-728D-18
    TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/656,716
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-55-716-42/c
Sequence 42, Application US/08656716
Sequence 42, Application US/08656716
Sequence 42, Application US/08656716
Sequence 42, Application Specific Defection Applicant: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
                                                                    SOPTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/656,716 FILING DATE:
                                                                                                                                            TLILING TAILS.

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REGISTRATION NUMBER: 38,347
RETERENCE/ROCKET NUMBER: 07265/089001
TELEPHONE: 617/542-8906
TELERA: 617/542-8906
TELERA: 200154
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDENESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIPICATION: 435
ATTORNEY, AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07265/089001
TELEPHONE: 617/542-6070
TELEPHONE: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Fish & Richardson P.C. STREET: 225 Franklin Street
                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        57.0%;
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TELEX: 200154
INPORMATION FOR SEQ ID NO:
SEQUENCE CHARACTER.ESTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 CGCGCGCTCGGT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 92.3
Matches 12; Conservative
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: nucleic acid
STRANDEDNESS: sing
                                                                                                                                                                                                                                                                                                                                                                                                                                            , MOLECULE TYPE: DNA
US-08-656-716-18
                                                                                                                                                                                                                                                                                                                                                                                                                              linear
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CITY: Boston
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US-OB-658-716-42

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Duerty Match

Duerty Match

Duerty Match

Duert Local Stallarity 97.04; Score 11.4; DB 1; Length 17;

Duerty Match

SCOCCOCTICGGT 3

RESULT 12

RESULT 13

RESULT 13

RESULT 13

RESULT 14

RESULT 14

RESULT 15

RESULT 15

RESULT 15

RESULT 17

RESULT 16

RESULT 17

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DB 3; Length 17; .7e+04;
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Sequence 42, Application US/09123951
Patent No. 6200756
GENERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/123,951
                                                                                                                                                                                                                                                                                                                                                                                                       ed. No. 3.76
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                    Score 11.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 07265/089001
TELECOMMUICATION:
TELEPHONE: 617/542-5070
TELEPRAX: 617/542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/656,716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Fish & Richardson P.C.
225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
  PILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFREENCE/DOCKET NUMBER: 07265
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 20154
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
                                                                                                                                                                                                                                                                                                                                                                                  57.0%;
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 12; Conserva
                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: DNA
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ZIP: 02110-2804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS:
TOPOLOGY: lin
MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: MP
COUNTRY:
                                                                                                                                                                                                                                                                                                                                         US-09-123-951-18
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Pred. No. 3.7e+04;
); Mismatches 1; Indels
                                                                                                                                     COUNTRY: USA

ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,728D
FILING DATE: April 11, 1997
CLASSIFICATION DATA:
APPLICATION NUMBER: 08/656,716
FILING DATE: Une 03, 1996,
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07265/125001
TELECOMMUNICATION INFORMATION:
TELECHOME: 619/678-5070
IITLE OF INVENTION: Methylation Specific Detection VUMBER OF SEQUENCES: 216
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Herman, James G.
APPLICANT: Baylin, Stephen B.
TITLE OF INVENTION: METHYLATION SPECIFIC DETECTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/123,951
                                                     SSEE: Fish & Richardson P.C.
F: 4225 Executive Square, Suite 1400
La Jolla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/656,716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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; Sequence 18, Application US/09123951
; Patent No. 6200756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 122: SEQUENCE CHARACTERISTICS: LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        57.0%;
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ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 CGCGCGCTCGGT 17
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Best Local Similarity
Matches 12; Conserv
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MOLECULE TYPE:
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                                                              ADDRESSEE:
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0; Сарв Best Local Similarity 92.3%; Pred. No. 3.7e+04; Matches 12; Conservative 0; Mismatches 1; Indels

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Search completed: May 3, 2005, 21:11:30 Job time : 126 secs

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WHE0629 B DKFZp434C CcLL01a03

1M0401F19

AZ314110 AZ864551 BM401265 AZ591658 BES16032 AL042746 CA967213

2822626.5 7LEAF--07 1M0011A24 2M0008P11

AZ849133 AW250737 CF302285

Pan trogl

AZ308410 AZ775705 AG194315 CL668826 AJ682145 AJ682145 AWZ46093

AJ682145 PRI0158d AJ682954

Run on:

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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. E. (bases 1 to 20)

E. (bases 1 to 20)

S. Inda, M. Aoyaqi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

L. Unpublished (2000)

Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /lab_host="E. coli strain XLIO-Gold, Ti-resistant, P-" Clone lib-mouse lokb plasmid UNGCZM library" //note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (http://www.jax.org/resources/documents/dnares/). The DNA
                                                                                                                                                                                                                                                                                                                                                                            AZ961140
2M0229P20F Mouse 10kb plasmid UUGC2M library Mus musculus genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0229 row: P column: 20
Seq primer: CGTTGTAAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Laboratory Mouse DNA Resource
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    20
    /organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /db_xref="taxon:10090"
/clone="UUGC2M0229P20"
                                    AZS91658
BE516032
AL042746
CA967213
AZ849133
AW250737
CF302285
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AZ775705
AG194315
                                                                                                                                                                                      AJ682145
AJ682954
AW246093
                                                                                                                                                                         CL668826
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AZ961140.1 GI:13832367
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tel: 801 585 5606
Fax: 801 585 7177
RESULT 1
AZ961140
LOCUS
DEFINITION
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KEYWORDS
SOURCE
ORGANISM
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1M0401F19
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2M0276M15
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                                                                                       May 3, 2005, 17:44:01; Search time 3014 Seconds (without alignments) 252.583 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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BA252195
AJ649246
AZ611716
AZ591658
BP966452
AZ992240
AJ594923
BM396331
CF542982
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BQ595292
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                                                                                                                                                                                                                                                                     12452
         GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                          34239544 segs, 19032134700 residues
                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                              - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AZ591658
BF966422
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                                                                                                                                                                         1 gggacgcgcgctcggtcat 20
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Match Length
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seq length: 20
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GSS 27-APR-2001

50072-2-2

BM395715 CF303743 A BM394214 BM394638

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Result

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VERSION
KEYWORDS
SOURCE'
ORGANISM
                    LOCUS
DEFINITION
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AUTHORS
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AUTHORS
TITLE
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LOCUS
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  AJ666384
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was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with 74 DNA polymerase and 74 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwD42 (gi|4732114|gb|AR129072.1), a copy-number inducible derivative of plasmid Rl. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
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                                                                                                                                                                                                                                                                              chemically-competent E. coli XLIO-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Turkewitz, A.P., Karrer, K.M., Jahn, C., Orias, E., Kirk, K.E.,
Turkewitz, A.P., Karrer, K.M., Jahn, C., Orias, E., Kirk, K.E.,
Turkewitz, A.P., Karrer, L.
Contact: Turkewitz AP
Molecular Genetics and Cell Biology
University of Chicago
920 E. 58th Street, Chicago, IL 60637, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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Bukaryota, Alveolata, Ciliophora, Oligohymenophorea,
Hymenostomatida, Tetrahymenina, Tetrahymena.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BM395903
5009-0-13-G11.t.1 Chilcoat/Turkewitz cDNA (large fraction)
Tetrahymena thermophila cDNA, mRNA sequence.
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Pred. No. 9.1e+06;
0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                               Query Match

47.0%; Score 9.4; DB 8; Length 20;
Best Local Similarity. 90.9%; Pred. No. 7.4e+06;
Matches 10; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Tetrahymena thermophila"
/mol_type="mRNA"
/strain="CU428.1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: apturkew@midway.uchicago.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seg primer: T3.
Location/Qualifiers
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78.6%;
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Best Local Similarity 78.6
Matches 11; Conservative
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Fax: 773 702 3172
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 2
BM395903
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KEYWORDS
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RESULT 3

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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Bukaryota, Metazoa, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
1 (bases 1 to 19)
Dun, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.,
Niederhauserts, A. and Wright, D., Weiss, R.,
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                             ENKARYORGA; Chordata; Craniata; Vertebrata; Euteleostomi;
ENKARYORGA; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.

1 (bases 1 to 20)
SS Anderson,S.I.; Finlayson,H.A. and Archibald,A.L.
Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle
Tupublished (2004)
Contact: Anderson SI
Genomics and Bioinformatics
Genomics and Bioinformatics
Roslin; Midlothian, EHZS 9PS, UNITED KINGDOM
Roslin; Midlothian, EHZS 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
Single pass sequencing. Bases called and trimmed with the -minscore 20
wio.020425.c. Vector identified by cross_match with the -minscore 20
and -minmatch 12 options. Vector:pBlueScription: Normalised library constructed
ECORI R. Site 2: NotI Description: Normalised library constructed
from pooled tissue from day 30 placentas. Clones available from UN
Centre for Functional Genomics in Farm Animals, Roslin Institite,
Roslin, Midlothian, UK, EH2S 9PS, www.arkgenomics.org.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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/mol trype="mina"
/db xref="taxon:9823"
/db xref="taxon:9823"
/clone="content of the property of the propert
20 bp mRNA linear EST 28-JUN-2004
AJ666384 CSEQRAN09 Sus scrofa cDNA clone C0000033_E03, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AZ775541 10kb plasmid UUGCIM library Mus musculus genomic clone UUGC2M0008H17F, genomic survey sequence.
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Pred. No. 9.1e+06;
0; Mismatches 3; Indels.
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78.6%;
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Sus scrofa
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                                                                                                                                               sequence.
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Fax: 82 31 321 6355
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Best Local S:
Matches
                                                                            source
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DEFINITION
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ORGANISM
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VERSION
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AUTHORS
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CF305567
                                                    FEATURES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligomucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gal electrophoresis. Vector DNA was prepared from a derivative of pWaPA2 (gql 4732114[gb]AR129072.1), a copy.number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coll Xilo-Gold (Stratagene) cells and selected for ampicillin resistance."
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Oryza sativa (japonica cultivar-group)
Bukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Byermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Bhrhartoideae; Oryzae; Oryza.

1 (bases 1 to 20)
Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Large-scale Sequencing Analysis of Rice ESTS
Unpublished (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, MyongJi University
                                                                                                                                                                                                                                                                                                                                                                                          /lab_host="E. Coli strain XLIO-Gold, Tl-resistant, F-"
/clone lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CF281215
20 bp mRNA linear EST 14-AUG-20 14ETL--08-C23.g1 Rice etiolated leaf plasmid cDNA library (14ETL) Oryza sativa (japonica cultivar-group) cDNA clone 14ETL--08-C23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
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Pred. No. 1.1e+07;
0; Mismatches 5; Indels
                                                              Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0008 row: H column: 17
                                                                                                           Plate: 0008 row: H column: 17
Seg primer: CGTTGTAAACGACGGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
                                                                                                                                                                                                                                                 /organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/63"
                                                                                                                                                                                                                                                                                                                         db xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                 'clone="UUGC2M0008H17"
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Tel: 82 31 330 6193
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                                                                                                                                                                                                                                                                                                                                                                         sex="Male"
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Best Local Similarity 70.67
Best Local 21 Conservative
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
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CF281215/c
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DEFINITION
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Oryza sativa (japonica cultivar-group)

Eukaryora, viridiplantae, Streptophyta; Embryophyta; Tracheophyta;

Eukaryora; Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

Ehrhartoideae; Oryzeae; Oryz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HDA1--01-B07.g1 OSHDAC1-overexpressing transgenic rice lambda phage cDNA library I (HDA1) Oryza sativa (japonica cultivar-group) cDNA clone HDA1--01-B07, mRNA sequence.
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/lab_host="E.coli SOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="Vector: pCR4-TOPO; Site 1: EcoRI; mRNA was capped with oligoribonucleotides and then used as templates for RT-PCR."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone lib="Rice etiolated leaf plasmid cDNA library (14ETL)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gape
                                                                                                                                      /organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       organism="Oryza sativa (japonica cultivar-group)"
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Email: bhnahm@ggbio.com, bhnahm@bio.myongji.ac.kr.
Location/Qualifiers
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Location/Qualifiers
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                                                                                                                                                                                                                                                                             /db_xref="taxon:39947"
/clone="14ETL--08-C23"
/tissue_type="leaf"
/dev stege="14 days after germination"
/lab_host="E.coli DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:39947"
/clone="HDA1--01-B07"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tissue_type="callus"
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/cultivar="Nackdong"
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CF305567.1 GI:33677328
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100.0%;
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/organism="Mus musculus"
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Unpublished (2000)
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Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10; Conservative
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                                                                                                                                                                                 18 bp DNA linear GSS 13-DEC-2002 100026548-5020 Aspergillus terreus random genomic DNA clone library Aspergillus terreus genomic, genomic survey sequence.
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                                                                                                                                                                                                                                                                                                                      Eukaryota; Fungi; Ascomycota; Pezizomycotina; Burotiomycetes;
Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
1 (bases 1 to 18)
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Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 19)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note="Vector: pZErOTM-2; Site 1: Sau3A; Site 2: BamHI;
Sau3A genomic fragments ligated into BamHI digested
pZErOTM-2
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                                    Gaps
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One Kendall Square Building 1400 W, Cambridge, MA 02139, USA
TE1: 617-621-8322
Fax: 617-
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AJ649246 CSEQRAN19 SUB SCrofa CDNA Clone C0003271_P09, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Aspergillus terreus"
/mol_type="genomic DNA"
/errain="ATCC 20542 (A. terreus Thom, anamorph)"
/db_ref="taxon:33178"
/lab_host="Escherichia coli"
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Score 8.8; DB 7; Length 17; Pred. No. 1.4e+07; 0; Mismatches 2; Indels
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Pred. No. 1.4e+07;
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Aspergillus terreus
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Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
Single pass sequencing. Bases called and trimmed with phred
Single pass sequencing. Bases called and trimmed with the -minscore 20
and -minmatch 12 options. Vector:pBlueScriptII(KS) R. Sitel: ECORI
R. Sitel: NOLI 5' Seq Primer M13F Normalised library constructed
From pooled ovaries. Clones available from UK Centre for Functional
Genomics in Parm Animals, Roslin Institite, Roslin, Midlothian, UK,
Anderson, S.I., Finlayson, H.A. and Archibald, A.L.
Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle
Unpublished (2004)
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/clone="C0003271_P09"
/tissue type="voxory"
/clone_lib="CSEQRAN19"
/note="voetcr: pBlueScript11(KS+); Site_1: EcoRI; Site_2:
NotI; Single pass sequencing; Normalised library
constructed from pooled ovaries"
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1M0438B15F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
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University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20
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83.3%; Pred. No. 1.4e+07;
ive 0; Mismatches 2
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Insert Length: 10000 Std Error: 0.00
Plate: 0438 row: B column: 15
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Class: plasmid ends
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Sus scrofa"
/mol_type="mRNA"
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Genomics and Bioinformatics
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/tissue_type="hippocampus"
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                                                                                                                                                                                                                      (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Nederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                        /note="Vector: PWD42ny; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                            'lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
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mol_type="genomic DNA"
strain="C57BL/6J"
                                       /db_xref="taxon:10090"
/clone="UUGC1M0438B15"
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Unpublished (2000)
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Fax: 801 585 7177
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(http://www.jax.org/resources/documents/dhares/). The DNA was hydrodynamically sheared by repeated passage through a was hydrodynamically sheared by repeated passage through was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gol electrophoresis. Vector DNA was prepared from a derivative of pwared for a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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On Jan 16, 2001 this sequence version replaced gi:12333667.

Contact: Robert Stramberg, Ph.D.

Email: cgapbs-r@mail.inih.gov

Tissue Procurement: Miklos Palkovits, M.D., Ph.D.

CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki

CDNA Library Preparation: Michael J. Brownstein (LIML)

DNA Sequencing by: The I.M.A.G.E. Consortium (LIML)

DNA Sequencing by: The I.M.A.G.E. Consortium (LIML)

Cone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLAMI0041 row: d column: 17

High quality sequence stop: 20.

Location/Qualifiers
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602287066F1 NIH_MGC_95 Homo sapiens CDNA clone IMAGE:4375648 5',
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 20)
                                                                                                       /lab host="E. Coli strain XLIO-Gold, Tl-resistant, F-"
/clone lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
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National Institutes of Health, Mammalian Gene Collection (MGC)
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    .20
    /organism="Homo sapiens"
/mol_type="mRNA"

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/clone="IMAGE:4375648"
'db_xref="taxon:10090"
                                         /clone="UUGC1M0401F19"
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/clone lib="NIH MGC 95"
//olone lib="NIH MGC 95"
//olone lib="NIH MGC 95"
//olote="Corgan: brain; Vector: pBluescriptR (modified pBluescript KS+); Site 1: BamH; Site 2: Salr-KhoI (gtcgag); Oligo-dT primed using primer size 2: Sk band normalized to ROT 5: This is a insert size 2: Sk band normalized to ROT 5: This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/ANGIRI, National Institutes of Health). Note: this is a NIH MGC Library."
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/clone_lib="Mouse 10kb plasmid UUGC2M library"
/note="Woctor: PWD42Tnv; PWTified genomic DNA from M.
musculus G57BL/6J (female) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AZ992240
2M0276M15R Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0276M15 R, genomic survey sequence.
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Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Nede, M., Rose, M., Rose, M., Rose, M., Rose, M., Muright, D., Weiss, R., Modesthausern, A. and Wright, D., Weiss, R., Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
84112, USA
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                                                                                                                                                                                                                                                                                                                      Score 8.6; DB 4; Length 20;
Pred. No. 1.7e+07;
0; Mismatches 4; Indels
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Insert Length: 10000 Std Error: 0.00
Plate: 0276 row: M column: 15
Seg primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
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/strain="C57BL/6J"
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/clone="UUGC2M0276M15"
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                   ch 43.0%;
il Similarity 73.3%;
11; Conservative (
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Unpublished (2000)
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Fax: 801 585 7177
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Best Local Similarity
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TITLE

COMMENT

FEATURES

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Direct Submission

Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue gaston Cremieux, 91057 Evry cedex, FRANCE
FOR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at http://dbsgap.versailles.inra.fr/publiclines/. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (http://www.genoplante.com and http://genoplante-info.infobiogen.fr).

Location/Qualifiers
polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWAP42 (gilf4732114 [gb] [AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent B. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brunaud, V., Balzergue, S., Dubreucq, B., Aubourg, S., Samson, F., Chavin, S., Bechlold, N., Craud, C., DeRose, R., Pelletier, G., Lepiniec, L., Caboche, M. and Lecharny, A.
T-DNA integration into the Arabidopsis genome depends on sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 43.0%; Score 8.6; DB 8; Length 20; I Similarity 73.3%; Pred. No. 1.7e+07; 11; Conservative 0; Mismatches 4; Indels
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    .13
/organism="Arabidopsis thaliana"
/mol type="genomic DNA"
/cultivar="Wassillewskija"
/db xref="taxon:3702"
/clone="408B05"

    .13
/note="T-DNA flanking sequence
left border"

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EMBO Rep. 3 (12), 1152-1157 (2002)
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AJ594923
AJ594923.1 GI:37944547
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Job time : 3021 secs
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Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Eukaryota, Viridiplantae, Streptophyta, Eukaryota, Magnollophyta, eudicotyledons, core eudicots,
Caryophyllales, Amaranthaceae, Beta.

1 (bases 1 to 19)
Hervig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,
and Radelof,U.
                                                       ö
                                                                                                                                                                                                                       EST 17-JAN-2002
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/clone lib="Chilcoat/Turkewitz cDNA (large fraction)"
/clone lib="Chilcoat/Turkewitz SK+; Details on library
preparation can be found in Chilcoat and Turkewitz (2001)
Proc. Natl. Acad. Sci USA, 98: 8709-8713."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EST from Tetrahymena thermophila, strain CU428.1, growing cells Unpublished (2002)
                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Alveolata, Ciliophora, Oligohymenophorea,
Hymenostomatida, Tetrahymenina, Tetrahymenidae, Tetrahymena.
                                                                                                                                                                                                                                                                                                                                                                                                                      Turkewitz, A.P., Karrer, K.M., Jahn, C., Orias, E., Kirk, K.E.,
Frankel, J. and Klobutcher, L.
                                                                                                                                                                                                                  19 bp mRNA linear EST 15009-0-2-E02.t.1 Chilcoat/Turkewitz cDNA (large fraction) Tetrahymena thermophila cDNA, mRNA sequence.
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                     Length 13;
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                                                       1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Turkewitz AP
Molecular Genetics and Cell Biology
Universalty of Chicago
920 B. 58th Street, Chicago, IL 60637, USA
Tel: 773 702 4374
Fax: 773 702 3172
Email: apturkew@midway.uchicago.edu
Seq primer: 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Tetrahymena thermophila"
/mol_type="mRNA"
/strain="CU428,1"
                   Score 8.4; DB 9;
Pred. No. 2.2e+07;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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Tetrahymena thermophila
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CP542982.1 GI:34891422
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                   42.0%;
Query Match
Best Local Similarity 90.0.
9; Conservative
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Turkewitz, A.P., Kan
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Best Local Similarity 60...
Best Local 2; Conservative
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DEFINITION
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VERSION
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AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
JOURNAL
COMMENT
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AUTHORS
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SOURCE
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/note="Vector: pCMVSPORT6; Site 1: Sall; Site 2: Not1; Sonball; Stee 2: Not1; Sonball; Stee 2: Not1; Sonball; Stee 3: Instanty provided by KWS Kleinwanzlebener Saatzucht AG Binbeck, Germany, contact: b.schulz@kws.de; cloning sites Sall-Not1, primer sites and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SP6-Sal1-CCACGCGTCCG-Sprime-cDNA-polyA-CC-Not1-T7; Note:
Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes Plant J. 32 (5), 845-857 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Ratharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database:http://gabi.rzpd.de"
                                                                                                                                                                                                                                                                                                                                                                                                 1. .19
/organism="Beta vulgaris"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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Pred. No. 2.1e+07;
0; Mismatches 1; Indels
                                                                                                   12472698
Contact: Weisshaar B
ADIS DNA core facility at MPIZ
MAX-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062812.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="leaf"
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/clone_lib="MPIZ-ADIS-024-leaf"
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us-10-605-498-82.rnpb

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May 3, 2005, 19:41:30 ; Search time 489 Seconds (without alignments) 248.985 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 1.0
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20
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Perfect score:
Sequence:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | | Appl | Appl | Appl | , Ap | Appl | Appl | Appl | Appl | Appl | 103, App | Appl |
|--------|-----------------|------------------|------------------|------------------|--------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|
| | | 82, | 90, | 19, | 8773 | 16, | 16, | 20, | 13, | 28, | 103, | 28, |
| | Description | Sequence | Sequence | Sequence | | Sequence | Sequence | Sequence | Sequence | Sequence | Sequence | Sequence |
| | ΩI | US-10-605-498-82 | US-10-605-498-90 | US-10-206-654-19 | US-10-131-827-8773 | US-10-023-066A-16 | US-10-804-678-16 | US-10-198-677-20 | US-10-148-355A-13 | US-10-394-808-28 | US-10-394-808-103 | US-10-803-482-28 |
| | 8 | 18 | 18 | 14 | 17 | 14 | 18 | 15 | 17 | | | 18 |
| | Match Length DB | 20 | 19 | 20 | 20 | 20 | 20 | 19 | 20 | 20 | 20 | 20 |
| Query | Match | 100.0 | 95.0 | 65.0 | 63.0 | 62.0 | 62.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 |
| | Score | 20 | 19 | 13 | 12.6 | 12.4 | 12.4 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
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| 20 18 US-10-803-482-103 18 9 US-09-942-588A-31 18 9 US-09-764-420A-32 18 9 US-09-764-420A-32 18 10 US-09-942-596A-31 18 10 US-09-988-873A-31 18 10 US-09-982-662A-31 18 10 US-09-942-662A-31 18 14 US-10-231-302-31 18 17 US-10-608-804-31 | 18 19 US-10-807-114-75 Sequence 75, 18 19 US-10-807-114-75 Sequence 75, 18 19 US-10-655-362-75 Sequence 75, 18 19 US-10-655-362-75 Sequence 75, 18 18 US-10-391-415-20 Sequence 1620 17 US-10-391-415-20 Sequence 20, 17 16 US-10-230-006-530 Sequence 530, 17 16 US-10-230-006-530 Sequence 530, 17 16 US-10-230-006-597 Sequence 530, 18 11 US-09-825-566-47 Sequence 590, 18 11 US-10-807-10-47 Sequence 77, 19 18 US-10-670-011-7 Sequence 77, 19 18 US-10-670-011-7 Sequence 77, 19 19 US-10-670-011-7 Sequence 103, 19 19 US-10-764-957-7 Sequence 103, 19 19 US-10-619-739-1280 Sequence 103, 19 US-10-619-739-1280 Sequence 51, 10 US-09-504-518-9 Sequence 92, 10 US-09-504-231A-926 Sequence 926, 15 9 US-09-274-553D-926 Sequence 926, 15 9 US-09-574-553D-926 Sequence 926, 15 9 US-09-574-5740-574 Sequence 926, 15 9 US-09-574-5740-574 Sequence 926, 15 9 US-09-574-5740-574 Sequence 926, 15 9 US-09-574-5740-5740-5740-5740-5740-5740-5740- | SULT 1 Sequence 82, Application US/10605498 Publication No. US20040127441A1 Sequence 82, Application US/10605498 Publication No. US20040127441A1 APPLICANT: Gleave, Martin APPLICANT: Rocchi, Palma APPLICANT: Signaevsky, Maxim APPLICANT: Signaevsky, Maxim APPLICANT: Signaevsky, Maxim APPLICANT: Signaevsky, Maxim TITLE OF INVENTION: Compositions and Methods for Treatment of Prostate and Other TITLE OF INVENTION: Cancers FILE REFERENCE: UBC.P-031 FURRENT PILING DATE: 2003-10-02 PRIOR APPLICATION NUMBER: US 60/415,859 PRIOR APPLICATION NUMBER: US 60/415,859 PRIOR APPLICATION NUMBER: US 60/463,952 | r v |
|---|--|--|---|
| | 0 00 00 00 00 00 00 00 00 00 00 00 00 0 | 98-82 32, Application No. US200 PFORMATION: F: Gleave, F: Signaeve; F: Signaeve, F: | -82 Similarity 0; Conser |
| | | RESULT 1 103-10-605-498-82 Sequence 82, Application No. US20, GENERAL INFORMATION: APPLICANT: Rocchi, APPLICANT: Rignaev, TILLE OF INVENTION: TILLE OF INVENTION: FILE REFERENCE: UBC CURRENT FILING DATE: PRIOR FILING DATE: NUMBER OF SEQ ID NO; SOFTWARE: PATENTION IN PRIOR FILING DATE: NUMBER OF SEQ ID NO; SOFTWARE: PATENTION IN PRIOR FILING DATE: NUMBER OF SEQ ID NO; SOFTWARE: PATENTION IN PRIOR FILING DATE: NUMBER OF SEQ ID NO; SOFTWARE: PATENTION IN SEQ ID NO 82 LENGTH: 20 | S-10-605-498-82 Query Match Best Local Sim Matches 20; |
| c 115 113 114 119 119 119 22 23 | 00 00 00 0 0 000 1000000000000000000000 | RESULT 1 US-10-605 Publicate Publicate GENERAL APPLICA APPLICA TITLE C TITLE C FILE RE CURRENT PRIOR P | US-10-6 Query Best Match |
| | | црания | .ρ |

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; TOPOLOGY: linear; SEQUENCE DESCRIPTION: SEQ ID NO: 19: US-10-206-654-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AND COMPANY
STREET: 1007 MARKET STREET
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SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTACGCCCTGCTGGGTCAT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: DNA
; ORGANISM: Human cytomegalovirus
US-10-131-827-8773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PLANTS
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                                                                                                                                                                                           Query Match 65.0
Best Local Similarity 100.
Matches 13; Conservative
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Matches 15; Conservative
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                              Sequence 90, Application US/10605498
| Publication No. US20040127441A1
| GENERAL INPORMATION:
| APPLICANT: Gleave, Martin
| APPLICANT: Gleave, Martin
| APPLICANT: Signaeveky, Maxim
| TITLE OF INVENTION: Compositions and Methods for Treatment of Prostate and Other
| TITLE OF INVENTION: Cancers
| TITLE OF INVENTION: Cancers
| TITLE OF INVENTION: Cancers
| TITLE OF INVENTICATION WUMBER: US/10/605,498
| CURRENT FILING DATE: 2003-10-02
| PRIOR FILING DATE: 2003-10-02
| PRIOR FILING DATE: 2003-4-18
| WUMBER OF SEQ ID NOS: 91
| SOFTWARE: PATENTION NUMBER: US 60/463,952
| NUMBER OF SEQ ID NOS: 91
| SOFTWARE: PATENTION NOS: 91
| SOFTWARE: PATENTION NOS: 91
| SOFTWARE: PATENTION NOS: 91
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COMPUTER: IBM Compatible
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/206,654
FILING DATE: 25-Jul-2002
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/046,858A
FILING DATE: 24-MAR-1998
APPLICATION NUMBER: 60/042,376
FILING DATE: 24-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Dehlinger, Peter J.
REGISTRATION NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 28,006
RESTRATION NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 2000-0456.30
TELEPDAYOR: 650-324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19, Application US/10206654
Publication No. US20030033634A1
GENERAL INFORMATION:
APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
INVENTION: SUGAR-REGULATORY SEQUENCES
NUMBER OF SEQUENCES: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match. 95.0%; Score 19; DB
Best Local Similarity 100.0%; Pred. No. 13;
Matches 19; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSE: Deblinger & Associates
STREET: PO Box 60850
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GGACGCGCGCTCGGTCAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19 GGACGCGCGCTCGGTCAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 19:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-605-498-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
                 JS-10-605-498-90/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-206-654-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 90
LENGTH: 19
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Sequence 8773, Application US/10131827

Publication No. US20040009479A1

GENERAL INFORMATION:
APPLICANT: Wohlgemuth, Jay
APPLICANT: Ly, NGO
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
TITLE OF INVENTION WUMBER: US/10/131,827
CURRENT FILING DATE: 2001-10-22
PRIOR APPLICATION NUMBER: US 60/296,764
FRIOR PILING DATE: 2001-10-22
PRIOR APPLICATION NUMBER: US 60/296,764
FRIOR APPLICATION NUMBER: US 807-40-4
FRIOR
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     Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THREONINE CONTENT OF THE SEEDS OF
                                                                                                                  0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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65.0%; Score 13; DB 14; ] 100.0%; Pred. No. 1.1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 107
CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. DU PONT DE NEMOURS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 16, Application US/10023066A; Publication No. US20030056242A1; GENERAL INFORMATION: APPLICANT: E. I. DU PONT DE NEMOURS AND
                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
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us-10-605-498-82.rnpb

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APPLICANT: KIUG, Aaron
APPLICANT: KIUG, Aaron
APPLICANT: MOORE, Michael
TITLE OF INVENTION: NUCLEIC ACID BINDING POLYPEPTIDES CHARACTERIZED BY
TITLE OF INVENTION: FLEXIBLE LINKERS CONNECTED NUCLEIC ACID BINDING
TITLE OF INVENTION: MOLECULES
FILE REFERENCE: 8325-2011 / G11-U51
CURRENT APPLICATION NUMBER: US/10/198,677
CURRENT FILING DATE: 2002-07-17
NUMBER OF SEQ ID NOS: 144
SOFTWARE: PATENTIN Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
, OTHER INFORMATION: Description of Artificial Sequence: bsG
US-10-198-677-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /product= "synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62.0%; Score 12.4; DB 18; 92.9%; Pred. No. 2.1e+04; tive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 59.0%; Score 11.8; DB 15; Best Local Similarity 86.7%; Pred. No. 4.1e+04; Matches 13; Conservative 0; Mismatches 2;
                   ATTORNEY/AGENT INPORMATION:
NAME: CHRISTENBURY, LYNNE MARE: LARISTENBURY, LYNNE MARE: LARISTENBURY, LYNNE MARE: LARISTENBURY, LYNNE MARE: SECISTRATION NUMBER: 30,971
REFERENCE/DOCKET NUMBER: BB-1037-F
TELECOMMUNICATION INFORMATION:
TELEFRA: 302-992-5481
TELEFRA: 302-992-7949
TELEX: 335420
INPORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPPL TOPPL TIMEST
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE DESCRIPTION: SEQ ID NO: 16:
       APPLICATION NUMBER: 08/824,627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 13, Application US/10148355A ; Publication No. US20030207831A1
                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: misc feature LOCATION: 1..20 OTHER INFORMATION: /prc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20, Application US/10198677 Publication No. US:2030119023A1 GENERAL INFORMATION: APPLICANT: CHOO, Yen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard_name= "SM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 GGACGCGCGCTCGG 16
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LENGTH: 19
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Pred. No. 2.1e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16, Application US/10804678
Sequence 16, Application WS/20050330A1
GENERAL INFORMATION:
GENERAL INFORMATION:
FALCO, SAVERIO CARL
MCDEVITT, RAYMOND ERVIN, III
MCDEVITT, RAYMOND ERVIN, III
MCDEVITT, RAYMOND ERVIN, III
MCREASING THE LYSINE CONTENT OF
THE SEEDS OF PLANTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSER: E. I. DU PONT DE NEMOURS AND COMPANY
STREET: 1007 MARKET STREET
CITY: WILMINGTON
MEDIUM TYPE: PLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
CORRENT BPLICATION DATA:
APPLICATION NUMBER: US/10/023,066A
FILING DATE: 29-Apr-2002
CLASSIFFCATION *CURRENT*
ATORNEY/AGENT INFORMATION:
NAME: BARBARA C. SIEGELL
REFERENCE/DOCKET NUMBER: 30,684
REFERENCE/DOCKET NUMBER: BB-1037-C
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: DISKETTE, 3.50 INCH
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MICROSOFT OFFICE 97
SOFTWARE: MICROSOFT WINDOWS 95
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/10/804,678
PILING DATE: 19-Mar-2004
CLASSIFICATION: <unhalian-classification DATA: APPLICATION DATA: US/09/049,304
PILING DATE: 27-Mar-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-023-066A-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc feature
LOCATION: 1..20
OTHER INFORMATION: /prc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLGY: linear
MOLECULE TYPE: DNA (genomic)
PEATURE:
                                                                                                                                                                                                                                                                                                     TELEPHONE: 302-992-4931
TELEFAX: 302-773-0164
                                                                                                                                                                                                                                                                                                                                         TELEX: 835420
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /standard_name= "SM
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COMPUTER READABLE FORM:
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Best Local Similarity 92.9'
Matches 13; Conservative
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Gaps

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Indels

Length 20;

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Gaps

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Indels

Length 19;

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Gaps

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Indels

Length 20;

GENERAL INFORMATION:

us-10-605-498-82.rnpb

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Sequence 28, Application US/10803482
Publication No. US20040209938A1
GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett B. Monia
APPLICANT: Brett Brett B. Graham
TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION FILE REPERENCE: BIOLOGO319
CURRENT APPLICATION NUMBER: US/10/803,482
CURRENT FILING DATE: 2004-03-18
PRIOR FILING DATE: 2003-03-21
NUMBER OF SEQ ID NOS: 231
LENGTH: 20
                                                                                            Score 11.8; DB 18;
Pred. No. 4e+04;
1; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 11.8; DB 18;
Pred. No. 4e+04;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; OTHER INFORMATION: Antisense Oligonucleotide US-10-803-482-28
                                                                                            59.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA CRGANISM: Artificial Sequence
                                                                                                                                                                                 1 GGGACGCGCGCTCG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 59.0%;
1 Similarity 86.7%;
13; Conservative
                                                                                                                                                                                                                            1 GGGUCGCGCCCUCG 15
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                                                                                       Query Match
Best Local Similarity 80.0
Matches 12; Conservative
; ORGANISM: H. sapiens
; FEATURE:
US-10-394-808-103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: RNA
ORGANISM: H. sapiens
                                                                                                                                                                                                                                                                                            RESULT 11
US-10-803-482-28/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-803-482-103
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Best Local Si
Matches 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGIH:
                                                                                                                                                                                 ਨੇ
  APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Lex M. Cowsert
APPLICANT: Lex M. Cowsert
APPLICANT: 151S PHARMACEUTICALS, INC.
TITLE OF INVENTION: ARTISENSE MODULATION OF TELOMERIC REPEAT BINDING FACTOR 2
TITLE OF INVENTION: EXPRESSION
FILE REPERENCE: RTSP-0082
CURRENT APPLICATION NUMBER: US/10/148,355A
CURRENT FILING DATE: 1999-12-17
NUMBER OF SEQ ID NOS: 89
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Mark J. Graham
TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION
FILE REFERENCE: BIOLO003US
CURRENT APPLICATION NUMBER: US/10/394,808
CURRENT FILING DATE: 2003-03-21
NUMBER OF SEQ ID NOS: 152
SEQ ID NO 28
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Brett P. Monia
APPLICANT: Mark J. Graham
TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION
FILE REFERENCE: BIOLO00338
CURRENT APPLICATION NUMBER: US/10/394,808
CURRENT FILING DATE: 2003-03-21
NUMBER OF SQ ID NOS: 152
LENGTH: 20
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Pred. No. 4e+04;
0; Mismatches 2; Indels (
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                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Antisense Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Antisense Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 103, Application US/10394808
Publication No. US20040185559A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 28, Application US/10394808; Publication No. US20040185559A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                 TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                          59.0%;
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ORGANISM: Artificial Sequence
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Length 20;

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Sequence 103., Application US/10803482
Publication No. US2004020938A1
Publication No. US2004020938A1
APPLICANT: Mark U. Graham
TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 1 EXPRESSION
FILE REFERENCE: BIOLO003US
CURRENT FAPLICATION WUMBER: US/10/803,482
CURRENT FILING DATE: 2004-03-18
PRIOR APPLICATION UNMER: US/10/394,808
PRIOR FILING DATE: 2003-03-21
PRIOR FILING DATE: 2003-03-21
SEQ ID NO: 231
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Pred. No. 4e+04;
1; Mismatches 2;
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Best Local Similarity 80.0.
Thea 12; Conservative
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RESULT 10

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In Sample
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APPLICANT: Okamoto, No. US20020115072Aluko
APPLICANT: Yamamoto, No. US20020115072Aluko
APPLICANT: Suzuki, Tomohiro
TITLE OF INVENTION: Probe Bound Substrate, Process For
TITLE OF INVENTION: Manufacturing Same, Probe Array, Method Of
TITLE OF INVENTION: Detecting Target Substance, Method Of
TITLE OF INVENTION: Stranded Nucleotide Sequence Of Single-
TITLE OF INVENTION: Quantitative Determination Of Target Subst
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 11.6; DB 9; Length 18; Pred. No. 5.1e+04; 0; Mismatches 4; Indels
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           Sequence 31, Application US/09942588A

Patent No. US20020106667A1

GENERAL INFORMATION:
TITLE OF INVENTION: Screening method for gene variation
FILE REFERENCE: CFO 15717

CURRENT FILING DATE: 2001-08-31

PRIOR APPLICATION NUMBER: US/09/942,588A

CURRENT FILING DATE: 2001-08-31

PRIOR APPLICATION NUMBER: JP 2000-263396

NUMBER OF EQ ID NOS: 67

SEQ ID NO 31

LENGTH: 18
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Best Local Similarity 77.8%; Pred. No. 5.1e+04;
Matches 14; Conservative 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 35C.15258
CURRENT APPLICATION NUMBER: US/09/764,420A
CURRENT FILING DATE: 2001-01-19
NUMBER OF SEQ ID NOS: 65
LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Sample oligonucleotide US-09-942-588A-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 32, Application US/09764420A Patent No. US20020115072A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Probe Sequence US-09-764-420A-32
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ORGANISM: Artificial Sequence
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Best Local Similarity 77.8%;
Matches 14; Conservative
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US-09-942-588A-31
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US-09-764-420A-32
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; Sequence 31, Application US/09942596A ; Patent No. US20020168648A1

RESULT 15 US-09-942-596A-31

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Sequence:

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AX453807 Sequence
BD000042 Probe-cou
BD085000 Target-de
AR271204 Sequence
AR13877 Sequence
AX078038 Sequence
AX078038 Sequence
AX08193 Sequence
AX12154 Sequence
AX4212154 Sequence
AX442154 Sequence
AX56529 Sequence
AX565913 Sequence
AX57813 Sequence
AX348120 Sequence
AX348120 Sequence
AX348120 Sequence
AX076701 Sequence
AX076701 Sequence
AR076701 Sequence
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
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Compositions for treatment of prostate and other cancers
Patent: WO 2004030660-A 92 15-APR-2004;
The University of British Columbia (CA)
Location/Qualifiers
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100.0%; Pred. No. 8.4e+02;
ive 0; Mismatches 0;
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Sequence 90 from Patent WO2004030660.
CQ799992. GI:46848939
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/db_xref="taxon:9606"
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/organism="Homo sapiens"
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AX412154
AX546229
BD208669
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AX348120
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AR037484
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AX202547 Sequence
AR370192 Sequence
BD13453 Method fo
BD160997 Terminal-
BD160997 Terminal-
BD164492 A method
BD176975 Method
AX488746 Sequence
AX391560 Sequence
AX391799 Sequence
AX391799 Sequence
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AR454276 Sequence
AR014592 Sequence
I26721 Sequence 9
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BD010384 Chimeric
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                                                                                         3, 2005, 16:15:09 ; Search time 1802 Seconds (without alignments) 537.794 Million cell updates/sec
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             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                        4708233 segs, 24227607955 residues
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AR454276
AR014592
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AR370192
BD133653
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AX391650
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PAT 28-APR-2004

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[bases 1 to 20)
Falco, S.C., Keeler, S.J. and Rice, J.A.
Synthetic storage proteins with defined structure containing programmable levels of essential amino acids for improvement of the nutritional value of plants patent: US 5559223-A 9 24-SEP-1996;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BD010384 20 bp DNA linear PAT 09-JAN-2004 Chimeric genes and methods for increasing the lysine content of the
                                                                                                                                                     PAT 07-0CT-1996
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Chimeric genes and methods for increasing the lysine and threonine content of the seeds of plants
Patent: US 6459019-A 16 01-OCT-2002;
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Pred. No. 1.2e+06;
0; Mismatches 1
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AR235394
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/mol_type="unassigned DNA"
                                                                                                                                                     126721 20 bp
Sequence 9 from patent US 5559223.
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 Similarity 92.9%;
13; Conservative
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BD010384
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DEFINITION
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TITLE
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Falco,S.Carl., Keeler,S.Jo. and Rice,J.Ann.
Chimeric genes and methods for increasing the lysine and threonine content of the seeds of plants
Patent: US 5773691-A 16 30-JUN-1998;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Chimeric plant promoters comprising sugar-regulatory sequences Patent: US 6680425-A 19 20-JAN-2004; Location/Qualifiers
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 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                            Gleave, M.E., Rocchi, P. and Signaevsky, M.
Compositions for treatment of prostate and other cancers
Patent: WO 2004030660-A 90 15-APR-2004;
The University of British Columbia (CA)
Location/Qualifiers
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95.0%; Score 19; DB 6; Le
Best Local Similarity 100.0%; Pred. No. 2.2e+03;
Matches 19; Conservative 0; Mismatches 0;
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Pred. No. 6.6e+05;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                        DNA
                                                                                                                                                                                                                                                                                                                                                                   Sequence 19 from patent US 6680425.

    .19
/organism="Homo sapiens"
/mol_type="unassigned RNA"
/db_xref="taxon:9606"

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mol_type="genomic DNA"
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/organism="unknown"
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/organism="unknown"
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AR014592.1 GI:3972046
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Best Local Similarity 100.0%;
Matches 13; Conservative 0
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Rodriguez, R.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unclassified.
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Unclassified.
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ACCESSION VERSION KEYWORDS SOURCE ORGANISM

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Choo,Y., Klug,A. and Moore,M.T.

Nucleic acid binding polypeptides characterized by flexible linkers connected nucleic acid binding modules
Patent: WO 0153480-A 20 26-JUL-2001;
Gendag Limited (GB)

Location/Qualifiers
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                       PAT 30-AUG-2001
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Monia, B.P. and Cowsert, L.M.
Antisense inhibition of telomeric repeat binding factor 2
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86.7%; Pred. No. 2.1e+06;
tive 0; Mismatches 2;
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86.7%; Pred. No. 2.1e+06;
tive 0; Mismatches 2;
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db xref="texon:32630"
/noTe="Binding site sequence"
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1 (bases 1 to 18)
                                                                                                                                                                                           other sequences; artificial sequences.
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Patent: US 6300132-A 13 09-OCT-2001;
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Sequence 13 from patent US 6300132.
AR370192
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Method for screening mutated gene.
BD133653
                       AX202547 19 bp
Sequence 20 from Patent WO0153480.
AX202547
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/organism="unknown"
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JP 2002071687-A/31.
synthetic construct
synthetic construct
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AR370192/c
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BD133653
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                                                                                                                                  unclassified.

If (bases 1 to 20)

If (bases 2 to 20)

If (bases 3 to 20)

If (bases 2 to 20)

If (bases 3 to 20)

If (bases 2 to 20)

If (bases 3 to 20)

If (bases 4 to 20)

If (bases 4
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Barbieri, J.T., Frank, D.W. and Kulich, S.M.
Barbieri, J.T., Frank, D.W. and Kulich, S.M.
Beudomonas aeruginosa nucleic acids encoding exoenzyme S activity
and use thereof in detecting pseudomonas aeruginosa infection
Patent: US 5599665-A 6 04-FEB-1997;
Location/Qualifiers
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Pred. No. 1.2e+06;
0; Mismatches 1;
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/organism="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="unassigned DNA"
/db xref="taxon:32644"
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/organism='Unidentified'.
Location/Qualifiers
                                         BD010384.1 GI:18638757
JP 2001502923-A/16.
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92.9%;
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Best Local Similarity 92.9
Matches 13; Conservative
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Unclassified.
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BD167492 17-JAN-2003
A method of analyzing a base sequence of a nucleic acid.
BD167492
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   other sequences; artificial sequences.

1 (bases 1 to 18)
Okamcto,T., Yamamoto,N. and Suzuki,T.
Terminal-labeled probe-array and method for preparing it, and method for evaluating target mass using the same
Patent: JP 2002153284-A 31 28-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OS Artificial Sequence
PN JP 2002153284-A/31
PD 28-MAY-2002
PP 24-NOV-2000
PF 24-NOV-2000 JP 2000357446
PI TADASHI OKAMOTO, NOBUKO YAMAMOTO, TOMOHIRO SUZUKI PC
C12N15/09, C12Q1/68, G01N31/22, G01N33/53, G01N33/566, G01N37/00, E
C2N15/00
CC Description of Artificial Coloration Coloration
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Terminal-labeled probe-array and method for preparing it, and method for evaluating target mass using the same.
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E 1 (bases 1 to 18)
S Yamamoto,N., Okamoto,T. and Suzuki,T.
A method of analyzing a base sequence of a nucleic acid
L Patent: WO 023368-A 31 25-APR-2002;
CANON KK,NOBUKO YAMAMOTO,TADASHI OKAMOTO,TOMOHIRO SUZUKI
OS Artificial Sequence
PN WO 023368-A/31
PD 25-APR-2002
PF 18-OCT-2000 WO 2000JD007244
PI NOBUKO YAWAMOTO,TADASHI OKAMOTO,TOMOHIRO SUZUKI PC
C12N15/09,C12O2/66,G01N33/56,G01N33/53
CC Sample origonucleotide
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/organism='Artificial Sequence'
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     4.
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     Mismatches
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                                                        3 GACGCGCGCTCGGTCAT 20
                                                                                                                1 GATGGGGCTCTCGTTCAT 18
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JP 2002153284-A/31.
synthetic construct
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synthetic construct
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  14; Conservative
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                                                                                                                Artificial Sequence
JP 2002071687-A/31
12-MAR-2002
31-AUR-2000 JP 2000263396
NOBUKO YAMAMOTO, TADASHI OKAMOTO, TOMOHIRO SUZUKI, SHINYA TANAKA
GOIN33/53, CI2M1/00, C12N15/09, C12Q1/68, G01N31/22, G01N33/566, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BD135731 18-SEP-2002 Method for detecting subjective component in specimen sample, and substrate for detection used therefor.
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NOBUKO YAWAMOTO, TADASHI OKAMOTO, TOMOHIRO SUZUKI, AKIRA SHIMIZU
CI2N15/09, CI2M1/00, C12M1/40, C12Q1/68, G01N31/22, G01N33/53, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yamamoto,N., Okamoto,T., Suzuki,T. and Shimizu,A. Method for detecting subjective component in specimen sample, and substrate for detection used therefor Patent: JP 2002065274-A 35 05-WAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
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organism='Artificial Sequence'
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Yamamoto, N., Okamoto, T., Suzuki, T. and Tanaka, S.
Method for screening mutated gene
Patent: JP 2002071687-A 31 12-MAR-2002;
CANON INC
OS TALIficial Sequence
PN JP 2002071687-A/31
PD 12-MAR-2002
PP 31-MAR-2000
PP 10-MOUNTO TADASHI OKAMOTO, TOMOHIRO SUZUK
PC GOIN33/53, C12M1/00, C12N15/09, C12Q1/68, G01N31/2
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Pred. No. 2.6e+06;
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^Organism="synthetic construct"
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JP 2002065274-A/35
05-MAR-2002
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JP 2002065274-A/35.
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RESULT 12 BD135731

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Method of analyzing nucleic acid base sequence.

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PN JP 2002306166-A/31
PP 22-OCT-2002
PP 31-AUG-2000 J 2000263506
PI NOBUKO YAMAMOTO, HISASHI OKAMOTO, TOMOHIRO SUZUKI PC
C12N15/09, C12Q1/68//C12M1/00, C12N15/00
CC Sample origonucleotide
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/organism='Artificial Sequence'.
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Best Local Similarity 77.8%; Pred. No. 2.6e+06;
Matches 14; Conservative 0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                synthetic construct
synthetic construct
other sequences; artificial sequences.
1 (bases 1 to 18)
Yammunto,N., Okamoto,H. and Suzuki,T.
Method of analyzing nucleic acid base sequence
Patent: JP 2002306166-A 31 22-0CT-2002;
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/db_xref="taxon:32630"
Location/Qualifiers

    .18
    forganism="synthetic construct"
/mol type="genomic DNA"
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Search completed: May 3, 2005, 20:18:53 Job time : 1810 secs

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| 5.1.6 | len Ten | |
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- nucleic search, using sw model OM nucleic May Run on:

3, 2005, 16:10:24 ; Search time 422 Seconds (without alignments) 280.556 Million cell updates/sec

US-10-605-498-82 20

1 gggacgcggcgctcggtcat 20 Title: Perfect score: Sequence:

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2207178 Total number of hits satisfying chosen parameters:

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Maximum.Match 100%
Listing first 45 summaries

•• Database

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geneseqn2003ds:* geneseqn2004as:*geneseqn2004bs:* geneseqn2003cs:* geneseqn2001as:* geneseqn2001bs:* geneseqn2003as:* geneseqn2002as:* geneseqn2002bs:* geneseqn2003bs:* geneseqn2000s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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|---------------|-------|----------------|--------------------------|----|-----------|--------------------|
| Result No: | Score | Query Match | Query Match Length DB | DB | ID | Description |
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| ر د | 19 | 95.0 | 19 | 12 | ADM94740 | Adm94740 Human hea |
| m | 12.6 | 63.0 | 20 | 9 | ABZ08781 | Abz08781 Human CMV |
| 4 | 12.4 | 62.0 | 19 | m | AAA40594 | Aaa40594 Human Arp |
| S | 12.4 | 62.0 | 20 | 7 | AAQ36810 | Aag36810 Oligomer |
| 9 | 12.4 | 62.0 | 20 | ~ | AAQ94968 | |
| 7 | 12.4 | 62.0 | 20 | ~ | AAV35805 | |
| œ | 12.4 | 62.0 | 20 | ~ | AAV99501 | Aav99501 Plasmid p |
| 0 | 12.4 | 62.0 | 20 | æ | ADA16031 | Ada16031 Plasmid p |
| 10 | 12.4 | 62.0 | 20 | 6 | ACH03677 | Ach03677 Plasmid p |
| 11 0 | 12.4 | 62.0 | 20 | 10 | ADF73001 | Adf73001 Probe rel |
| 175 | 11.8 | 59.0 | 15 | 9 | AAD26768 | Aad26768 Human SNA |
| 13 | 11.8 | 59.0 | 17 | ~ | AAT61840 | Aat61840 Pseudomon |
| 14 | 11.8 | 59.0 | 19 | 4 | AAH23296 | Aah23296 Coding st |
| 15 | 11.8 | 59.0 | 20 | s | AAH20644 | Aah20644 Human tel |
| 16 | 11.8 | 59.0 | 20 | 10 | ABZ87221 | Abz87221 Human oli |
| 17 | 11.8 | 59.0 | 20 | 11 | ABD23451 | Abd23451 Human myo |
| 18 | 11.8 | 59.0 | 20 | 13 | ADS00264 | Ads00264 Human dia |
| 19 | 11.8 | 59.0 | . 20 | 13 | ADS00339 | Ads00339 Human dia |
| 20 | 11.6 | 58.0 | 18 | ~ | AAV70497 | Aav70497 Truncated |
| | | | | | | |

| Aaa58530 PCR prime | | Abk72469 Sample or | _ | Abl54931 Human tum | Abl46108 Mycobacte | Abt04724 End-label | Abl59666 Oligonucl | Abt06245 Synthetic | Adk82298 Mycobacte | Aah22265 Fibroblas | Adc65851 Mouse TGF | Abz98678 Human try | Abz87769 Human oli | Abd31709 Human Try | Abd23999 Human cal | Adj60557 Oligonucl | Ado46046 Human oli | Adm82136 Monofilam | Adq76718 Enzymatic | Abk95806 Solute Ca | Abi99079 Human PCD | Aav09529 MSP ampli | Aav09425 CpG-conta | Adq78137 PCR prime |
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| AAA58530 | AAC99272 | ABK72469 | ABN99777 | ABL54931 | ABL46108 | ABT04724 | ABL59666 | ABT06245 | ADK82298 · | AAH22265 | ADC65851 | AB298678 | ABZ87769 | ABD31709 | ABD23999 | ADJ60557 | ADO46046 | ADM82136 | ADQ76718 | ABK95806 | AB199079 | AAV09529 | AAV09425 | ADQ78137 |
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| 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 |
| 9.1 | 9:1 | 9:1 | 9. | 9. | 9. | 9: | 9.1 | 9: | 9: | 9: | 9. | 9: | 9: | 9. | 11.6 | 11.6 | 9 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 4. |
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ALIGNMENTS

RESULT 1 ADM94732

ADM94732 standard; DNA; 20 BP.

ADM94732;

(first entry) 01-JUL-2004

Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:82.

heat shock protein 27; hsp27; cytostatic; gene therapy; heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human; antisense oligonucleotide; ss.

Homo sapiens. Synthetic.

WO2004030660-A2.

15-APR-2004.

02-OCT-2003; 2003WO-CA001588.

02-OCT-2002; 2002US-0415859P. 18-APR-2003; 2003US-0463952P.

Signaevsky Gleave ME, Rocchi P,

(UYBR-) UNIV BRITISH COLUMBIA.

Ë

WPI; 2004-316331/29.

New composition comprising a therapeutic agent that reduces the amount of active hap27 in hsp27 expressing cells exposed to the therapeutic agent, useful in treating cancer, e.g., prostate cancer or a central nervous system malignancy.

Claim 6; SEQ ID NO 82; 38pp; English.

The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein 27 (hsp27) in hsp27 expressing cells exposition to the therapeutic agent. The composition has cytostatic activity, and can be used in gene therapy. The

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BP.

ABZ08781 standard; DNA; 20

ABZ0878 RESULT

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The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein 27 (hsp27) in hsp27 expressing cells exposed to the therapeutic agent. The composition has cytostatic activity, and can be used in gene therapy. The composition is useful in treating cancer, e.g., prostate, bladder, lung, breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system malignancy. The present sequence represents a human hsp27 short interfering RNA (siRNA) oligonucleotide which is used in the exemplification of the present invention.
                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amount of
composition is useful in treating cancer, e.g., prostate, bladder, lung, breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system malignancy. The present sequence represents a human hsp27 antisense oligonucleotide which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New composition comprising a therapeutic agent that reduces the amount or active hap27 in hsp27 expressing cells exposed to the therapeutic agent, useful in treating cancer, e.g., prostate cancer or a central nervous
                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      heat shock protein 27; hsp27; cytostatic; gene therapy;
heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human;
short interfering RNA; siRNA; RNA interference; RNAi; ds.
                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human heat shock protein 27 siRNA oligonucleotide SEQ ID NO:90.
                                                                                                                                                Query Match
100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19 BP; 3 A; 8 C; 6 G; 0 T; 2.U; 0 Other;
                                                                                                                Sequence 20 BP; 2 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 90; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Signaevsky M;
                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                1 GGGACGCGCGCTCGGTCAT 20
                                                                                                                                                                                                                              GGGACGCGCGCTCGGTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYBR-) UNIV BRITISH COLUMBIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-OCT-2002; 2002US-0415859P.
18-APR-2003; 2003US-0463952P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-OCT-2003; 2003WO-CA001588
                                                                                                                                                                                                                                                                                                                                                           ADM94740 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rocchi P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-316331/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        system malignancy.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                  ADM94740;
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                                                                                                                                                                                                                                                                                                                        RESULT 2
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The invention relates to a system for detecting gene expression, which comprises one or two isolated DNA molecules that detect expression of a gene, where the gene corresponds to any of 8143 oligonucleotides (ABZ00010-ABZ08152) each harding 50 base pairs (Dp). The system is useful for leukcoyte expression profiling. It is particularly useful for diagnosing a disease, monitoring (rate of) progression of a disease, predicting therapeutic outcome, determining prognosis for a patient, predicting disease complications in an individual or monitoring response to treatment in an individual. The diseases include cardiac allograft tejection, kidney allograft rejection, liver allograft rejection, are rejection, kidney allograft rejection, liver allograft rejection, the heart failure, systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis or cytomegalovirus infection. The
                                                                                                                                    CMV; leukocyte; gene expression profiling; allograft rejection; atherosclerosis; congestive heart failure; systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New system for leukocyte expression profiling, diagnosing a disease, or monitoring (the rate of) progression of a disease, e.g. atherosclerosis or congestive heart failure, comprises diagnostic oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Phillips J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present sequence is that of a CMV PCR primer used in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
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Pred. No. 2.7e+04;
0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Prentice J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 2 A; 5 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Altman P, Pı, Johnson F;
                                                                                                      Human CMV PCR primer SEQ ID NO 8773.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            muth J, Fry K, Matcuk G, A
Woodward R, Quertermous T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 18; Page 142; Opp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GGACGCGCGCTCGGTCAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gracecrecrecicar 19
                                                                                                                                                                                                                                                                                                                                                                                 20-OCT-2000; 2000US-0241994P.
08-JUN-2001; 2001US-0296764P.
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Local Similarity 78.9%;
les 15; Conservative (
                                                                                                                                                                                                                                                                                                                                                 22-OCT-2001; 2001WO-US047856
                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                         (BIOC-) BIOCARDIA INC.
                                                                                                                                                                                                                                     Human cytomegalovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-636525/68.
                                                                                                                                                                                                                                                                       40200257414-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wohlgemuth J,
                                                                     09-JAN-2003
                                                                                                                                                                                                                                                                                                            25-JUL-2002.
                                                                                                                                                                                                    primer; ss.
                                  ABZ08781;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ľ, N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Local Similarity 100. ses 19; Conservative

Query Match

AAA40594 standard; DNA; 19

RESULT 4
AAA40594/C
ID AAA4059
XX
AC AAA4059

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Gaps

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95.0%; Score 19; DB 12; Length 19; 100.0%; Pred. No. 30; ...:ive 0; Mismatches 0; Indels

AAA40594;

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The sequence represents the DNA sequence encoding a synthetic heptad polypeptide. The synthetic polypeptide can be expressed in vivo in plants to serve as a synthetic seed storage protein which can be custom-tailored for specific end-user requirements. The DNA encoding the heptad may be used to transform plants to increase the content of partic. and as such as lysine or methionine in seeds or leaves. See also AAQ36811-28, AAQ37265-301. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New chimeric gene providing increased lysine content in plant seeds - contains di:hydro:di:picolinic acid synthase gene coupled to chloroplast transport sequence and seed specific promoter, also new plants of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 PCR primers (AAQ94968 and AAQ94969) were designed to prime replication
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lygine; synthetic storage protein; SSP; vector; pSK6; dihydrodipicolinic acid synthase; corn; malze; Zea mays; soybean; dihydrodipicolinic acid synthase; corn; malze; Zea mays; soybean; Glycine max; rapeseed; oilseed rape; Brassica napus; transgenic plant; essential amino acid; primer; PCR; polymerase chain reaction; ss.
                                     Synthetic polypeptide(s) contg. specified heptad units - expressed in vivo in plants to serve as custom-tailored storage proteins with specified aminoacid content.
                                                                                                                                                                                                                                                                Query Match 62.0%; Score 12.4; DB 2; Length 20; Best Local Similarity 92.9%; Pred. No. 3.3e+04; Matches 13; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                       Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20"
                                                                                              Disclosure; Page 106; 176pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ94968 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93US-00160117.
94US-00261661.
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/standard
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
          WPI; 1993-076517/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1995-215272/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer SM 70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          misc_feature
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ94968;
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                                                                                                                                                                                                                                                                                                                                                                               Arp3H as an actin-related protein gene family member. The present invention provides the cDNA sequence of the actin related protein gene family member. The present invention provides the cDNA sequence of the actin related protein gene and the polypeptide encoded by the said sequence, as well as the recombination technology to produce the actin related protein gene. Sequence represents a PCR primer used in the amplification of the human Arp3A gene described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Heptad; plants; custom tailored storage proteins; in vivo; expression;
                                                                                                                                                                                                                                                                                                                             Human actin related protein gene and encoded polypeptide preparation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                  Human; Arp3H; actin-related protein; PCR primer; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 12.4; DB 3; Length 19;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligomer SM 70 used in construction of SSP polypeptides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 19 BP; 1 A; 8 C; 10 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                        (XINH-) XINHUANGPU FUDAN GENE ENG CO LTD SHANGHA.
                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 17; 25pp; Chinese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP
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92.9%;
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           (first entry)
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(first entry)
                                      Human Arp3H PCR primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGCGGCGCTCGGCC 4
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                                                                                                                                                                                                                                                                    Zhang H;
                                                                                                                                                                                                                                                                                                WPI; 2000-443229/39.
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les 13; Conser
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                                                                                                                                                                                22-OCT-1998;
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           20-NOV-2000
                                                                                              Homo sapiens
                                                                                                                           CN1252448-A.
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                                                                                                                                                     10-MAY-2000
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22-JUN-1993
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Length 20; 1; Indels

Score 12.4; DB 2; Pred. No. 3.3e+04; 0; Mismatches 1;

62.0%;

Query Match 62.0 Best Local Similarity 92.9 Matches 13; Conservative

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of plasmid pSK1, but excluding a 30 base fragment around the Earl Site. SMSL1 is a mutant of pRR3121 in which the ampiciling gene has been deleted. PCR was performed using pSK1 as template. The product was utilised in the produ. of pSK6 (see also AAQ94970-711, a vector used for the construction of genes (see AAQ94972-Q95005) coding for synthetic storage proteins (SSPS) (see AAR78236-59). These were expressed in the seeds of transformed soybean, rapeseed and corn to improve the lysine content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lyaine inhibition; plant chloroplast transit sequence;
plant seed-specific regulatory sequence; transgenic plant;
increased lysine level; corn; Zea mays; soybean; Glycine max; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chimeric genes encoding lysine production enzymes - useful for increasing transgenic seed lysine content without being inhibited by high levels of the amino acid.
                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                .
                                                                                                                                                                                                                                                                                              Score 12.4; DB 2; Length 20;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dihydrodipicolinic acid synthase; DHDPS; chimeric gene;
                                                                                                                                                                                                                                            Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer used in the course of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (DUPO ) DU PONT DE NEMOURS & CO E I.
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93WO-US002480.
                                                                                                                                                                                                                                                                                                    62.0%;
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(first entry)
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nes 13; Conservative
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18-MAR-1993;
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25-AUG-1998
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                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV35805;
                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV35805

AAV35805

AAV35805

DY

CS-P-P

CS-P

CS-P-P

CS-P

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acids and chimeric genes for increasing seed lysine content -comprise sequence encoding all or part of lysine ketoglutarate reductase, useful to improve nutritional quality of seeds from transformed plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primers SM70 and SM71 (see AAV99502) are designed to remove the Earl site at base 2353 of plasmid pSK1, a spontaneous mutant of pBR322 in which the ampicillin gene and the Earl site near the gene are deleted. The product was used in the construction of expression vector pSK5. Chimeric genes for lysine-rich synthetic seed storage proteins suitable AAV99513-18, AAV99523-41). The invention also provides claimed nucleic acids and chimeric genes useful for improving the mutritional quality of seeds from transgenic plants. Methods involve manipulation of lysine ketoglutarate reductase and lysine ketoglutarate reductase and lysine-insensitive dihydrodipicolinic acid synthase activity (see AAW87757-66)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                        Lysine; transgenic plant; seed storage protein; vector; pSK5; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 12.4; DB 2; Length 20;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                          Epelbaum SU
                                                                                                                                                                                                                                                                                                                                                                             (DUPO ) DU PONT DE NEMOURS & CO E I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 21; Page 99; 231pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADA16031 standard; DNA; 20 BP.
                             ВР
                                                                                                                                                                                                                                                                                                                 98WO-US006051.
                                                                                                                         Plasmid pSK1 PCR primer SM70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62.0%;
92.9%;
                             AAV99501 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 CGCGGCGCTCGGTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 cecrececreere 20
                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                            Falco SC, Mcdevitt RE,
                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-045139/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                     Escherichia coli.
                                                                                                                                                                                                                                                                                                                 27-MAR-1998;
                                                                                                                                                                                                                                                   WO9842831-A2
                                                                                          29-MAR-1999
                                                                                                                                                                                                                                                                                  01-OCT-1998
                                                                                                                                                                           primer; ss.
                                                                                                                                                                                                     Synthetic
                                                            AAV99501;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADA16031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
RESULT 8
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                AAV99501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADA16031
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specification describes a Corynabacterium dapA gene, which encodes a dihydrodipicolinic acid synthase (DHDPS) enzyme, which was used to create chimeric genes of the invention. The chimeric genes contain a mucleic acid fragment encoding a DHDPS enzyme which is insensitive to inhibition by lysine operably linked to a plant chloroplast transit sequence and to a plant seed-specific regulatory sequence. The chimeric genes are useful for producting plants containing increased levels of lysine, especially in corn (Zea mays) and soybean (Glycine max). (Updated on 25-MAR-2003 to correct PR field.)

Seguence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;

PCR primers AAV35805-06 were used to in the course of the invention. The

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ss; lysC; transgenic; lysine accumulation;
dihydrodipicolinic acid synthase; DHDPS; lysine inhibition;
lysine ketoglutarate reductase; LKR; chloroplast transit sequence; CTS;
aspartokinase III; AKIII; synthetic seed storage protein; SSP.
                   Plasmid pSK1 mutagenic PCR primer #1.
                                                                                                                                             (DUPO ) DU PONT DE NEMOURS & CO E I.
                                                                                                                                                           Falco SC, Keeler SJ, Rice JA;
                                                                                                                   92US-00855414.
94US-00178212.
95US-00474633.
      (first entry)
                                                                                                                                                                        WPI; 2003-028272/02.
                                                                                                       24-MAR-1997;
                                                                                                                    19-MAR-1992;
                                                                                                                          06-JAN-1994;
07-JUN-1995;
                                                                              US6459019-B1
      06-NOV-2003
                                                                                          01-OCT-2002
                                                                 Synthetic.
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plant lysine ketoglutarate reductase subfragment is used in antisense inhibition or cosuppression. Also included are progeny plants from the above mentioned plant and seeds obtained from the above mentioned plant. The seeds obtained from the above mentioned plant. The seeds obtained from the above mentioned plant (e.g., rapeseed, soybean or corn) comprising the foreign nucleic acid sequences accumulate lysine at a higher level, preferably at a level of at least 10% higher than seeds of a plant that do not comprise the foreign nucleic acid aspearnces. Chimaeric gene comprising DHDPS from C. glutamicum and aspartchinase III (from the lysc gene) of B. coli (mutated to be lysine-insensitive) are also used to generate the above transgenic plants. Also Transformed plants that accumulate lysine at higher levels in its seeds than untransformed plants, has gene fragments encoding lysine-insensitive dihydrodipicolinic acid synthase and lysine ketoglutarate reductase. The invention relates to a plant comprising two foreign nucleotide sequences which cause seeds obtained from the plant to accumulate lysine at a level of at least 10% higher than seeds of a plant that do not comprise the nucleotide, where the nucleotide comprises a fragment encoding a dihydrodipicolinic acid synthase (DHDPS) that is insensitive to lysine inhibition, and a fragment encoding a plant lysine ketoglutarate reductase (LKR) or its subfragment. The nucleotide fragment is operably linked to a plant chloroplast transit sequence (CTS) and the plant lysine ketoglutarate reductase subfragment is used in antisense disclosed are synthetic seed storage proteins (SSP) used as a an internal source of lysine, built up from synthetic peptide monomers based around an Earl site sequence (for generating mutlimeric proteins). The present sequence is an oligonucleoride (or primer) used in the construction of expression plasmids for expression of the chimaeric proteins or SSPs. Example 21, Col 76; 109pp; English.

.; 0 Score 12.4; DB 8; Length 20; Pred. No. 3.3e+04; 1; Indels Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other; Mismatches ö 62.0%; 92.9%; Conservative Query Match Best Local Similarity 13; Matches

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Gaps

CGCGGCGCTCGGTC 18 cecrececreearc

ACH03677 standard; DNA; 20 BP. RESULT 10 ACH03677 ID ACHC

ACH03677;

Plasmid pSK1 Ear I site mutagenic PCR primer #1.

(first entry)

25-SEP-2003

seed lysine content; seed threonine content; seed storage protein; SSP; chloroplast transit sequence; lysine-rich protein; lysine ketoglutarate reductase; LKR; transgenic; ss; PCR; primer. Aspartokinase; AKIII; dihydrodipicolinic acid synthase; DHDPS;

Escherichia coli.

Synthetic.

US2003056242-A1.

20-MAR-2003

97US-00823771.

2001US-00023066 17-DEC-2001;

93WO-US002480. 94US-00178212. 95US-00474633. 92US-00855414 .9-MAR-1992;

97US-00823771 06-JAN-1994 24-MAR-1997

လ ပ (FALC/) FALCO

Falco SC;

WPI; 2003-521869/49.

New nucleic acid fragment encoding aspartokinase and dihydrodipicolinic acid synthase, useful for increasing threonine or lysine content of seeds of plant

Example 21; Page 41; 116pp; English.

first nucleic acid subfragment encoding appartchinase (AK) that is a caid subfragment encoding abpartchinase (AK) that is substantially insensitive to inhibition by lysine, and a second nucleic acid subfragment encoding dibydrodipicolinic acid synthase (DHDPS) that is substantially insensitive to inhibition by lysine. Also included are an isolated nucleic acid fragment comprising a nucleic acid subfragment is operably linked to a plant chloroplast transit sequence and to a seed-specific regulatory sequence, a plant comprising the nucleic acid/chimaeric gene in its genome, a seed obtained from the plant, increasing threenine or lysine content of the seeds of plant applied of transmitting the chimaeric gene to a progeny of plant applied of transmitting the chimaeric gene to a progeny of plant having the ability to produce levels of free threonine or lysine at a level at least ten percent to four-fold higher than the seeds of an untransformed general plant, a transformed seeds of an untransformed plant, a transformed plant, a comprising seeds that accumulate lysine to a level between ten percent and one hundred percent higher that of the seeds of an untransformed plant, a monocot plant comprising in its genome the nucleic acid fragment having the monocot combrosising in its genome the nucleic acid fragment having the monocot combrosising in its genome the nucleic acid fragment and one hundred combros specific promoter and a transformed corn plant comprising seeds that accumulate lysine to a level between ten percent and one hundred contribute accumulate lysine to a level between ten percent and one hundred contribute precent higher than the seeds of the untransformed plant. Also disclosed are synthetic lysine-rich seed storage proteins (SSP), built up arrangement and a plant matter manner and a plant matter setting manner and a plant matter manner and a p plant. The nucleic acid fragments, genes and methods are useful for increasing threenine or lysine content of the seeds of the plant. Seeds containing increased threenine or lysine content eliminate the need to supplement mixed grain feeds with lysine or threenine produced via the invention relates to an isolated nucleic acid fragment comprising microbial fermentation. The present sequence is an oligonucleotide us in the prearation of a version of plasmid pSK1 used to clone the SSP synthetic sequences

Sequence 20 BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;

Human, synaptosomal-associated protein 29 kD; SNAP29 protein; primer; haplotyping; genotyping; membrane trafficking related disorder; ASO; gene therapy; polymorphism; allele-specific oligonucleotide; ss.

Human SNAP29 gene polymorphism detecting ASO primer #11

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09-APR-2002 (first entry)

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The present sequence represents a tubercle bacillus gene chip and its application. According to the characteristics of tubercle bacillus genome sequence and molecular mechanism produced by tubercle bacillus resistance to drug, and according to its application the probe can be designed and selected, and the probe array can be regularly and reasonable arranged according to a certain mode to form optimized probe array. The gene chip can be used for quickly, accurately and high-efficiency identifying tubercle bacillus, and can be used for screening and detecting its tresistance to drug, and can detect the mutation of specific site of tubercle bacillus gene sequence and the mutation of non-specific site. The invention can be used for tuberculosis diagnosis and reasonable selection of medicine. The present sequence represents a probe related to
                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A tubercle bacillus gene chip useful for tuberculosis diagnosis and reasonable selection of medicine.
                                                 .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 12.4; DB 10; Length 20;
Pred. No. 3.3e+04;
0; Mismatches 1; Indels 0
                Length 20;
                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence 20 BP; 3 A; 10 C; 5 G; 2 T; 0 U; 0 Other;
                Score 12.4; DB 9;
Pred. No. 3.3e+04;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 59; 4pp; Chinese.
                                                                                                                                                                                                                                                                                                                    tubercle bacillus gene chip; ss; probe
                                                                                                                                                                                                                                                                                       Probe related to the invention #59
                                                                                                                                                                                           ADF73001 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JAN-2001; 2001CN-00107010.
              62.0%;
illarity 92.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JAN-2001; 2001CN-00107010
                                                                               CGCGGCGCTCGGTC 18
                                                                                                             7 cécrécéricéric 20
                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bao L, Zhang W, Wang X;
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-240333/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BAOL/) BAO L.
                                                                                                                                                                                                                                                        26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                    CN1362526-A.
                                                                                                                                                                                                                                                                                                                                                                                                                    07-AUG-2002
                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                          ADF73001;
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Novel isolated polynucleotide, a polymorphic variant of synaptosomal-associated protein, 29 kD (SNAP29) gene useful for expressing SNAP29 protein isoform to screen drugs to treat SNAP29 activity-related disease.

Tanguay DA;

Kazemi A, Koshy B, WPI; 2002-089916/12.

(GENA-) GENAISSANCE PHARM INC.

23-MAY-2000; 2000US-0206529P. 23-MAY-2001; 2001WO-US016938.

WO200190126-A2 Homo sapiens.

29-NOV-2001.

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The invention relates to genetic variants of human synaptosomal-associated protein, 29 kD (SNAP29) gene. The invention also relates to compositions and methods for haplotyping and/or genotyping the SNAP29 gene in an individual. Polymucleotides of the invention are useful for studying the expression and function of SNAP29 and expressing SNAP29 protein for use in screening candidate drugs to treat diseases related to SNAP29 activity. They are also used in gene therapy. The genotyping method is useful for determining if an individual has one of haplotype or validating whether SNAP29 is a suitable target for drugs to treat disorders related to membrane trafficking, screening for such drugs and reducing bias cells in clinical trials of such drugs. The present sequence is an allele-specific oligonucleotide (ASO) primer used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Exoenzyme S; exoS; detection; treatment; vaccination; infection; production; antibody; modification; ras protein; carcinoma; probe; mammallan; recombinant; primer; PCR; polymerase chain reaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pseudomonas aeruginosa exoenzyme S gene antisense PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 3 A; 6 C; 5 G; 0 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             59.0%; Score 11.8; DB 6;
86.7%; Pred. No. 6.3e+04;
iive 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       detect human SNAP29 gene polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 16; Page 13; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT61840 standard; DNA; 17 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 GACGCGCGCTCGGT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT61840;
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g
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Synthetic

AAD26768 standard; DNA; 15 BP.

AAD26768

RESULT 12
AAD26768/C
ID AAD26
XX
AC AAD26

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Gaps

; 0

62.0%; 92.9%;

6 GCGCCCTCGGTCA 19

13; Conservative

Matches

Local Similarity

Query Match

19 GCGCCCTGGGTCA 6

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The invention relates to a nucleic acid (NA) binding polypeptide (I) comprising a repressor domain and several NA binding domains (BDs) linked by at least one non-canonical linker. (I) may be used to identify NAs in a complex mixture, to differentiate single base pair changes in NAs, in the manufacture of chimeric restriction enzymes, to produce knock out coganisms, and in the treatment of diseases such as: cardiovascular, inflammatory, metabolic, infections, neurological, rheumatological, genetic, dermatological, and musculoskeletal diseases. The invented methods are used to produce novel NA binding polymucleotides and to modify existing NA binding polymucleotides comprising several NA BDs. The novel polypeptide comprises several nucleic acid binding domains linked by linker sequences. The invented polypeptide is therefore able to span longer or variable gaps, and a greater number of gaps, between DNA binding subsites. Sequences AAH21290-296 represent coding strand sequences of the binding sites used in gel shift experiments with
Nucleic acid binding polypeptide, used to identify nucleic acids and treat inflammatory, neurological, and dermatological disease, comprises repressor domain and several nucleic acid binding domains linked by non-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antisense; phosphorothioate; human; telomeric repeat binding factor 2; inhibitor; premature aging; hyperproliferative disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human telomeric repeat binding factor 2 oligonucleotide 111372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               59.0%; Score 11.8; DB 4; Length 19; 86.7%; Pred. No. 6.3e+04; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'note = "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Seguence 19 BP; 1 A; 5 C; 11 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= OTHER
/note= "2-0-methoxyethyl"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag= c
/mod_base= OTHER
/note= "2-0-methoxyethyl"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               peptides containing flexible linkers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                         Example 9; Page 66; 142pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= OTHER
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ID AAH20644 standard; DNA; 20 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-DEC-1999; 99US-00467642.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 ggacgcgcgcrcgg 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 deaccedecerrede 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Д
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 86.77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ...20
                                                                   canonical linker(s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200143752-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cytostatic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-JUN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH20644;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is a PCR primer for the gene encoding the 49 kDa form of the Pseudomonas aeruginosa exoenzyme S (exoS), which can be used to detect, and in vaccines against P. aeruginosa infection. The protein can also be used to produce antibodies, which can be used to detect and treat P. aeruginosa infection, and modify ras protein function in mammalian carcinomas. The exoS gene can be used as a probe to detect P. aeruginosa infection, and in a vector for recombinant exoS production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic; circulatory active; anti-inflammatory; dermatological; neuroprotective; cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic; osteopathic; gene therapy; zinc finger; binding site; ss.
                                                                                                                                                                                                                                                                                                  New isolated P. aeruginosa exo:enzyme S DNA - used to develop prods. I
the detection, treatment and prevention of infections or for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  59.0%; Score 11.8; DB 2; Length 17; 66.7%; Pred. No. 6.3e+04; vative 4; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 17 BP; 1 A; 6 C; 3 G; 2 T; 0 U; 5 Other;
                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Col 19-20; 23pp; English
                                                                                                                                                                                                                  Kulich SM, Barbieri JT, Frank DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Coding strand of binding site bsG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH23296 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-JAN-2000; 2000GB-00001582.
30-MAY-2000; 2000GB-00013102.
30-MAY-2000; 2000GB-00013103.
                                                                                  93US-00171299
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-MAY-2000; 2000GB-00013104
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15 RGARGCSGCSCTSGG 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-2001 (first entry)
                                                                                                                                                                       (MCWR-) MCW RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 66.7
nes 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-451906/48.
                                                                                                                                                                                                                                                          WPI; 1997-118290/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GEND-) GENDAQ LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200153480-A1.
                                                                                                                                                                                                                                                                                                                                               carcinoma(s).
                                                                                  21-DEC-1993;
                                                                                                                             21-DEC-1993;
US5599665-A.
                                            04-FEB-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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0; Gaps

(ISIS-) ISIS PHARM INC.

Monia BP, Cowsert LM;

WPI; 2001-398071/42.

Antisense compounds targeted to nucleic acid encoding telomeric repeat binding factor 2 useful for treating conditions such as premature aging and diseases such as cancer.

Claim 3; Page 80; 108pp; English.

This invention describes a novel antieense compound (I) 8-30 nucleobases in length targeted to a polynucleotide encoding human telomeric repeat binding factor 2 (II) which specifically hybridises with, and inhibits the expression of (II). (I) is useful for treating a human having a disease or condition associated with (II) such as premature aging or a hyperproliferative disorder especially cancer, by inhibiting the expression of (II) in human cells or tissues. (I) is useful for diagnostics, therapeutics, prophylaxis and as research reagents and kits. The products of the invention have cytostatic activity. This sequence represents an antisense oligonucleotide used to illustrate the method of the invention

Sequence 20 BP; 1 A; 8 C; 7 G; 4 T; 0 U; 0 Other;

Gaps ö Score 11.8; DB 5; Length 20; Pred. No. 6.3e+04; 0; Mismatches 2; Indels 59.0%; 86.7%; Query Match
Best Local Similarity 86.7;
Matches 13; Conservative

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5 CGCGGCGCTCGGTCA 19

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18 CGCGGCGATCGGACA 4

Search completed: May 3, 2005, 19:48:37 Job time: 429 secs

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